

Title (en)

SYSTEM FOR PROVIDING VISUAL GUIDANCE FOR STEERING A TIP OF AN ENDOSCOPIC DEVICE TOWARDS ONE OR MORE LANDMARKS AND ASSISTING AN OPERATOR IN ENDOSCOPIC NAVIGATION

Title (de)

VORRICHTUNG ZUR BEREITSTELLUNG VON VISUELLER FÜHRUNG ZUM LENKEN EINER SPITZE EINER ENDOSKOPISCHEN VORRICHTUNG ZU EINER ODER MEHREREN LANDMARKEN UND UNTERSTÜTZUNG EINES BEDIENERS BEI DER ENDOSKOPISCHEN NAVIGATION

Title (fr)

SYSTÈME POUR FOURNIR UN GUIDAGE VISUEL POUR DIRIGER L'EMBOÛT D'UN DISPOSITIF ENDOSCOPIQUE VERS UN OU PLUSIEURS REPÈRES ET ASSISTER UN OPÉRATEUR LORS D'UNE NAVIGATION ENDOSCOPIQUE

Publication

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Application

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Abstract (en)

Landmark directional guidance is provided to an operator of an endoscopic device by displaying graphical representations of vectors adjacent a current image captured by an image capturing device disposed at a tip of the endoscopic device and being displayed at the time on a display screen, wherein the graphical representations of the vectors point in directions that the endoscope tip is to be steered in order to move towards associated landmarks such as anatomic structures. Navigation guidance is provided to the operator by determining a current position and shape of the endoscope relative to a reference frame, generating an endoscope computer model according to the determined position and shape, and displaying the endoscope computer model along with a patient computer model referenced to the reference frame so as to be viewable by the operator while steering the endoscope.

IPC 8 full level

G06T 15/00 (2011.01)

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Citation (applicant)

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